



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

order # 13149 x58

A.R.C.

D350-615-041  
Job Sheet 192648



Part No: D350-615-041

Job Qty: 50 pcs

Part Name: GHW Modification, Fits LH or RH



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 3/28/19

Job Tracking No:

Due Date: 4/10/19

Created By: Shannon Hadley

Type: SOLD

Description: ORDER 13149

Note: IIN REV B IPP Rev:K Removed Manufacturing 05-12-05 JLM IPP Rev:L revise bom DD 10.03.18 verified by:JLM

Ship Via:

### Bill of Materials

### Job Routing

| Op No | Operation                   | Qty    | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | DAS Sign-off                  |
|-------|-----------------------------|--------|------------|----------|-----------|---------|-----------------------|-----------|-------------------------------|
|       |                             |        |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time |                               |
| 110   | Small Fab - 1               | 50 pcs | 4/10/19    |          | 0.00      | 4.61    | Small Fab - 1         |           | 58<br>9-89<br>APR 15 2019     |
|       |                             |        |            |          |           |         | Small Fab - 2         |           |                               |
|       |                             |        |            |          |           |         | Small Fab - 3         |           |                               |
|       |                             |        |            |          |           |         | Small Fab - 4         |           |                               |
|       |                             |        |            |          |           |         | Small Fab - 5         |           |                               |
|       |                             |        |            |          |           |         | Small Fab - 6         |           |                               |
|       |                             |        |            |          |           |         | Small Fab - 7         |           |                               |
| 120   | QC 5                        | 50 pcs | 4/10/19    |          | 0.00      | 0.00    | QC 5 - 10             |           | DAS<br>APR 15 2019 68<br>9-89 |
|       |                             |        |            |          |           |         | QC 5 - 12             |           |                               |
|       |                             |        |            |          |           |         | QC 5 - 17             |           |                               |
|       |                             |        |            |          |           |         | QC 5 - 18             |           |                               |
|       |                             |        |            |          |           |         | QC 5 - 19             |           |                               |
|       |                             |        |            |          |           |         | QC 5 - 22             |           |                               |
|       |                             |        |            |          |           |         | QC 5 - 24             |           |                               |
|       |                             |        |            |          |           |         | QC 5 - 3              |           |                               |
|       |                             |        |            |          |           |         | QC 5 - 43             |           |                               |
|       |                             |        |            |          |           |         | QC 5 - 49             |           |                               |
|       |                             |        |            |          |           |         | QC 5 - 51             |           |                               |
|       |                             |        |            |          |           |         | QC 5 - 58             |           |                               |
|       |                             |        |            |          |           |         | QC 5 - 68             |           |                               |
|       |                             |        |            |          |           |         | QC 5 - 9              |           |                               |
|       |                             |        |            |          |           |         | QC 5 - 50             |           |                               |
|       |                             |        |            |          |           |         | QC 5 - 30             |           |                               |
|       |                             |        |            |          |           |         | QC 5 - 40             |           |                               |
| 130   | QC 4                        | 50 pcs | 4/10/19    |          | 0.00      | 0.00    | QC 4 - 28             |           | N/A JLM                       |
|       |                             |        |            |          |           |         | QC 4 - 58             |           |                               |
|       |                             |        |            |          |           |         | QC 4 - 69             |           |                               |
|       |                             |        |            |          |           |         | QC 4 - 9              |           |                               |
| 140   | Packaging 3-1 - Stock - B4B | 50 pcs | 4/10/19    |          | 0.00      | 0.00    | QC 4 - 46             |           |                               |
|       |                             |        |            |          |           |         | Packaging 3 - 1 - B4B |           |                               |

|     |              |        |         |                        |                 |
|-----|--------------|--------|---------|------------------------|-----------------|
|     |              |        |         | Packaging 3 - 2 - B4B  |                 |
|     |              |        |         | Packaging 3 - 3 - B4B  |                 |
|     |              |        |         | Packaging 3 - 4 - B4B  |                 |
|     |              |        |         | Packaging 3 - 5 - B4B  |                 |
|     |              |        |         | Packaging 3 - 6 - B4B  |                 |
|     |              |        |         | Packaging 3 - 7 - B4B  |                 |
|     |              |        |         | Packaging 3 - 8 - B4B  |                 |
|     |              |        |         | Packaging 3 - 9 - B4B  |                 |
|     |              |        |         | Packaging 3 - 10 - B4B |                 |
|     |              |        |         | Packaging 3 - 11 - B4B |                 |
|     |              |        |         | Packaging 3 - 12 - B4B |                 |
|     |              |        |         | Packaging 3 - 13 - B4B |                 |
|     |              |        |         | Packaging 3 - 14 - B4B |                 |
|     |              |        |         | Packaging 3 - 15 - B4B |                 |
|     |              |        |         | Packaging 3 - 16 - B4B |                 |
|     |              |        |         | Packaging 3 - 17 - B4B |                 |
|     |              |        |         | Packaging 3 - 18 - B4B |                 |
|     |              |        |         | Packaging 3 - 19 - B4B |                 |
|     |              |        |         | Packaging 3 - 20 - B4B |                 |
|     |              |        |         | Packaging 3 - 21 - B4B |                 |
|     |              |        |         | Packaging 3 - 22 - B4B |                 |
|     |              |        |         | Packaging 3 - 23 - B4B |                 |
|     |              |        |         | Packaging 3 - 24 - B4B |                 |
|     |              |        |         | Packaging 3 - 25 - B4B |                 |
|     |              |        |         | Packaging 3 - 26 - B4B |                 |
|     |              |        |         | Packaging 3 - 27 - B4B |                 |
|     |              |        |         | Packaging 3 - 28 - B4B |                 |
|     |              |        |         | Packaging 3 - 29 - B4B |                 |
|     |              |        |         | Packaging 3 - 30 - B4B |                 |
|     |              |        |         | Packaging 3 - 31 - B4B |                 |
|     |              |        |         | Packaging 3 - 32 - B4B |                 |
|     |              |        |         | Packaging 3 - 33 - B4B |                 |
|     |              |        |         | Packaging 3 - 34 - B4B |                 |
|     |              |        |         | Packaging 3 - 35 - B4B |                 |
|     |              |        |         | Packaging 3 - 36 - B4B |                 |
| 145 | DC - 1 - B4B | 50 pcs | 4/10/19 | 0.00 0.00              | DC - 1 - B4B    |
|     |              |        |         |                        | DC - 2 - B4B    |
| 150 | QC 21 - FG   | 50 pcs | 4/10/19 | 0.00 0.00              | QC 21 - FG - 21 |
|     |              |        |         |                        | QC 21 - FG - 70 |
|     |              |        |         |                        | QC 21 - FG - 53 |

Part Op **110** - Assemble D2282-041 with D2282-043 as per Dwg D350-615 \*\*\*Only engage one thread on three 5/16-18-015C  
 Descriptions: bolts\*\*\*  
**120** - (QC5- Inspect part completeness to step on W/O)  
**130** - (QC4- 100% Inspect kits for completeness)  
**140** - (Identify as per dwg & Stock Location: ) Identify with Eurocopter and Dart part# using permanent ink stamp and pack for shipping as per PPP D350-615-041 Location :FG023  
**145** - Photocopy bluefile and type labels with Eurocopter part# (2 GHW Kits per box) as per PPP D350-615-041 CHG003  
**150** - (QC21- Final Inspection - Work Order Release)

#### Job BOM

| Part / Item        | Component Name       | Quantity           | Operation         | Container   |
|--------------------|----------------------|--------------------|-------------------|-------------|
| GA119 5/16-18-015C | SS Bolt 5/16-181.5"  | 174 150 Ea (3 ea)  | 110-Small Fab - 1 | 5156497     |
| GA119 5/16WC       | Washer               | 696 800 Ea (12 ea) | 110-Small Fab - 1 | 5156551     |
| GA119 7/16-14-050C | SS Bolt 7/16 5" Long | 58 50 Ea (1 ea)    | 110-Small Fab - 1 | 5156553     |
| GA119 7/16WC       | Washer, SS Flat 7/16 | 116 100 Ea (2 ea)  | 110-Small Fab - 1 | 5156498     |
| GA118 D2282-041    | T Assembly           | 58 50 pcs (1 ea)   | 110-Small Fab - 1 | 5168472     |
| GA118 D2282-043    | Saddle Assembly      | 58 50 pcs (1 ea)   | 110-Small Fab - 1 | 5172007     |
| GA117 D3015-3      | Locknut              | 174 150 pcs (3 ea) | 110-Small Fab - 1 | 5186557 X31 |
| GA117 D3015-5      | SS Nylock Nut 7/16   | 58 50 pcs (1 ea)   | 110-Small Fab - 1 | 5131172 X7  |

| Job Allocations                    |                |          |           |           |
|------------------------------------|----------------|----------|-----------|-----------|
| Operation                          | Component Part | Required | Inventory | Allocated |
| 110-Small Fab - 1                  | 5/16-18-015C   | 150      | 652       | 0         |
|                                    | 5/16WC         | 600      | 2,514     | 0         |
|                                    | 7/16-14-050C   | 50       | 247       | 0         |
|                                    | 7/16WC         | 100      | 504       | 0         |
|                                    | D2282-041      | 50       | 44        | 0         |
|                                    | D2282-043      | 50       | 45        | 0         |
|                                    | D3015-3        | 150      | 746       | 0         |
|                                    | D3015-5        | 50       | 307       | 0         |
| Part Specifications                |                |          |           |           |
| Specifications could not be found. |                |          |           |           |

Plex 3/28/19 4:39 PM Dart.Hadley.Shannon





Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

**D350-615-041**  
**Job Sheet 189925**



**Part No:** D350-615-041

**Job Qty:** 50 ea

**Part Name:** GHW Modification, Fits LH or RH



**Part Weight:** 0 lbs

**Status:** New

**Priority:** Medium

**Job Created:** 2/1/19

**Job Tracking No:**

**Due Date:** 4/10/19

**Created By:** Marie Lajeunesse

**Type:** SOLD

**Description:** ORDER 13149

**Note:** IIN REV B IPP Rev:K Removed Manufacturing 05-12-05 JLM IPP Rev:L revise bom DD 10.03.18 verified by:JLM

**Ship Via:**

### Bill of Materials

### Job Routing

| Op No | Operation          | Qty    | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off |
|-------|--------------------|--------|------------|----------|-----------|---------|-----------------------|-----------|----------|
|       |                    |        |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time |          |
| 90    | Start up Operation | 50 Ea  |            | 4/10/19  | 0.00      | 0.00    | Start Up Small Fab-4  |           |          |
| 110   | Small Fab          | 50 pcs |            | 4/10/19  | 0.00      | 4.61    | Small Fab-4           |           |          |
| 120   | QC                 | 50 pcs |            | 4/10/19  | 0.00      | 0.00    | QC5                   |           |          |
| 130   | QC                 | 50 pcs |            | 4/10/19  | 0.00      | 0.00    | QC4                   |           |          |
| 140   | Packaging          | 50 pcs |            | 4/10/19  | 0.00      | 0.00    | Packaging3-1          |           |          |
| 145   | DC                 | 50 pcs |            | 4/10/19  | 0.00      | 0.00    | DC                    |           |          |
| 150   | QC21-FG            | 50 Ea  |            | 4/10/19  | 0.00      | 0.00    | QC21                  |           |          |

Part Op 110 - Assemble D2282-041 with D2282-043 as per Dwg D350-615 \*\*\*Only engage one thread on three 5/16-18-015C Descriptions: bolts\*\*\*

140 - Identify with Eurocopter and Dart part# using permanent ink stamp and pack for shipping as per PPP D350-615-041 Location :FG023

145 - Photocopy bluefile and type labels with Eurocopter part# (2 GHW Kits per box) as per PPP D350-615-041 CHG003

### Job BOM

| Part / Item  | Component Name       | Quantity       | Operation             | Container |
|--------------|----------------------|----------------|-----------------------|-----------|
| 5/16-18-015C | SS Bolt 5/16-181.5"  | 150 Ea (3 ea)  | 90-Start up Operation |           |
| 5/16WC       | Washer               | 600 Ea (12 ea) | 90-Start up Operation |           |
| 7/16-14-050C | SS Bolt 7/16 5" Long | 50 Ea (1 ea)   | 90-Start up Operation |           |
| 7/16WC       | Washer, SS Flat 7/16 | 100 Ea (2 ea)  | 90-Start up Operation |           |
| D2282-041    | T Assembly           | 50 pcs (1 ea)  | 90-Start up Operation |           |
| D2282-043    | Saddle Assembly      | 50 pcs (1 ea)  | 90-Start up Operation |           |
| D3015-3      | Locknut              | 150 pcs (3 ea) | 90-Start up Operation |           |
| D3015-5      | SS Nylock Nut 7/16   | 50 pcs (1 ea)  | 90-Start up Operation |           |

| Job Allocations                    |                |          |           |           |
|------------------------------------|----------------|----------|-----------|-----------|
| Operation                          | Component Part | Required | Inventory | Allocated |
| 90-Start up Operation              | 5/16-18-015C   | 150      | 12        | 0         |
|                                    | 5/16WC         | 600      | 567       | 0         |
|                                    | 7/16-14-050C   | 50       | 97        | 0         |
|                                    | 7/16WC         | 100      | 101       | 0         |
|                                    | D2282-041      | 50       | 2         | 0         |
|                                    | D2282-043      | 50       | 3         | 0         |
|                                    | D3015-3        | 150      | 149       | 0         |
|                                    | D3015-5        | 50       | 55        | 0         |
| Part Specifications                |                |          |           |           |
| Specifications could not be found. |                |          |           |           |

Plex 2/1/19 7:33 AM Dart.lajeunesse.marie

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |              |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |              |  |
| Date : _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sequence #: _____                                                                                                                 | QTY Affected : _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        | MRB (QSI042) |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Disposition            |              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Completed By           |              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Lead hand / Supervisor |              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | QC / QA Coordinator    |              |  |
| <b>Root Cause</b><br><br><div style="display: flex; flex-direction: column;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Preservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |                        |              |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |              |  |



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
CANADA  
TEL.: 1 613 632-5200  
Email: sales@dartaero.com  
www.dartaerospace.com

Container No: S172281



Part: D350-615-041

Job No: 192648

Serial No/Batch: S172281

Revision:

Inspector:

Exp Date:

Instructions: Certificate of Conformity only 04/15/19

D350-615-041  
S172281